



BellSouth Telecommunications, Inc.
Suite 2104
333 Commerce Street
Nashville, TN 37201-3300

Charles L. Howorth, Jr.
Regulatory Vice President

615 214-6520
Fax 615 214-8858

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JUL 16 2002

TN REGULATORY AUTHORITY
TELECOMMUNICATIONS DIVISION

July 16, 2002

Mr. Joe Werner, Chief
Telecommunications Division
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, Tennessee

0200787

Dear Mr. Werner:

SUBJECT: Wireless E911-Phase II

Attached is the following tariff filing of BellSouth Telecommunications, Inc., issued July 16, 2002. We request that this tariff be effective August 16, 2002.

General Subscriber Services Tariff

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Second Revised Page 47.3

This Tariff is being filed to implement Phase II of the FCC's order 94-102. Additional details can be found in the executive summary that is included in this filing package.

Supporting cost study information is being filed "Proprietary" under separate cover.



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We appreciate your returning a receipted copy as evidence of this tariff filing. Please call Jim Gotto at 214-3815 if you have any questions or wish to discuss.

Yours truly,

Charlie Howorth

Attachments

EXECUTIVE SUMMARY

Introduction

The purpose of this filing is to implement Phase II of the FCC's Order 94-102. This second phase will provide the PSAP with a more accurate location of the wireless caller when he/she dials 911. With Phase II, the ALI format must be changed to BellSouth Extended ALI format to accommodate the longitude and latitude, x, y, coordinates sent by the Wireless Service Provider. In some cases, the signaling protocol from the tandem to the PSAP will need to be changed to Enhanced MF signaling with 20 digits of ANI. Wireless Service Providers must have a Position Determining Entity and a Mobile Position Center in their network and a Phase II interface into BellSouth's ALI database in order to provide the Phase II data.

Wireless E911 Phase I provided the wireless caller's location using a pseudo-ANI number that identified the cell site/sector. Wireless E911 Phase II will deliver the caller's x,y coordinates, i.e. longitude and latitude, provided by the Wireless Service Provider, to the PSAP. To utilize Phase II, the PSAP's ALI software must be upgraded to the BellSouth Extended ALI format.

Commission approval of this filing will allow the implementation of Phase II of the FCC's Order 94-102.

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A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.5 Enhanced Universal Emergency Number Service (E911) (Cont'd)

E. Rates And Charges (Cont'd)

7. Data Base Access (Cont'd)

d. (Cont'd)

- (6) All E911 equipment provided by vendors shall be registered under Part 68 of the Federal Communications Commission's rules governing customer premises equipment.
- (7) All E911 equipment must comply with Part 15 of the Federal Communications Commission's rules governing customer premise equipment.
- (8) The equipment must be compatible with national standards for interfaces of Enhanced 911 Emergency Response Systems.
- (9) The Company shall not be required to modify its network operations or protocols to accommodate PSAP equipment provided, however, if the Company is required to modify its network in any way to connect the equipment which it is offering to any purchaser, then the Company shall be required to make the same types of modifications to its systems to accommodate the equipment of other sellers at no additional charge to the seller.
- (10) Maintenance and repair of PSAP equipment and seller contact concerning the same is the responsibility of the customer. For the customer's protection, the Company recommends that all customers obtain written contractual assurance that their seller is capable of furnishing, and will furnish, adequate continuous maintenance, service and repair of the customer's PSAP equipment. If the Company is not the equipment provider, the Company's maintenance responsibility ends at the point of demarcation.

A13.27.6 Wireless E911 Phase 2

A. Description of Service

Wireless E911 Phase 2 is only available in combination with Enhanced Universal Emergency Number Service – E911 as specified in A24.1.4. and is subject to the regulations specified therein.

In accordance with the FCC's Report and Order 94-102, wireless E911 Phase 2 provides PSAPs with the wireless E911 caller's location and callback number (CBN) information, as specified by the FCC. The FCC has adopted specific handset-based and network-based location accuracy and reliability solutions' standards for the Wireless Service Providers (WSPs).

B. General Regulations

1. The Company is not responsible for the location determination technology, the accuracy of the location determination technology, or the investigation or maintenance of said technologies. Only the data required and specified by the FCC in its Report and Order 94-102 will be delivered by the Company to the PSAP. This required data includes the cell site or sector location, the callback number, and the longitude/latitude of the caller. Each customer agrees that delivery, or lack of delivery, of additional data elements which may be provided by the WSP will not be the responsibility of the Company and the Company assumes no responsibility or liability for such information.
2. PSAPs must have all required elements of Wireless E911 Phase 1, utilizing p-ANI routing and cell site/sector location based information, in place before implementing Phase 2. In addition, the following requirements must be met prior to Phase 2 implementation:
 - a. The PSAP's ALI software must be upgraded to BellSouth's Extended ALI format to accommodate the x/y data. See rates in F. following.
 - b. WSPs must have Position Determining Entity (PDE) and a Mobile Position Center (MPC) in their network.
 - c. WSPs must have obtained a Phase 2 interface into BellSouth's ALI database to provide the Phase 2 data.

C. Definition of Terms

1. Callback Number (CBN) – The wireless subscriber's wireless handset telephone number. The CBN is used by the PSAP to reestablish a call in the event the call was prematurely disconnected.
2. E2 Interface – A reference point for a data path that exists between an MPC and an ESME (the ALI database). The data that traverses the E2 interface is made up of an Emergency Services Position Request and the response. The E2 interface is not provided by and is not the responsibility of the Company.

A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.6 Wireless E911 Phase 2 (cont'd)

C. Definition of Terms (cont'd)

3. Emergency Services Message Entity (ESME) – An entity in the emergency services network which serves as the point of interface to an MSC for common channel emergency services messaging. ESME is another term for the ALI database. (N)
4. Mobile Position Center (MPC) – The interface between the wireless network and the wireless location network. The MPC retrieves, forwards, stores, and controls position data within the location network. The MPC is not provided by and is not the responsibility of the Company. (N)
5. Mobile Switching Center (MSC) – The wireless equivalent of a Central Office, which provides switching functions for wireless calls. The MSC is not provided by and is not the responsibility of the Company. (N)
6. Phase 2 NCAS – In this mode both the p-ANI and the CBN are sent to the Selective Router. The trunk between the Selective Router and the PSAP must support transport of at least two 10-digit numbers. (N)
7. Position Determining Entity (PDE) – The PDE determines the precise geographic location of a wireless handset when the wireless caller places a 911 call or while the call is in process. The PDE is not provided by and is not the responsibility of the Company. (N)
8. WLS911 – The BellSouth solution that sends either eight or ten digits of ANI to the PSAP and dynamically updates the static cell site or sector information with the CBN as provided by the WSP. This solution when used in conjunction with a WSP's E2 interface allows WSPs to comply with the FCC's order without requiring PSAPs to upgrade their PSAP equipment to utilize Enhanced MF signaling. (N)
9. Wireless Service Provider (WSP) – A person or entity that provides Commercial Mobile Radio Service (CMRS). The term wireless includes service provided by any wireless real-time, two-way voice communication device, including radio-telephone communications used in cellular telephone service, personal communication service (PCS), or functional or competitive equivalent. The term does not include service providers whose customers do not have access to 911 or 911-like services. (N)
10. Wireline Compatibility Mode – Occurs when the WSP sends only p-ANI to the BellSouth E911 tandem and the PSAP receives eight or ten digits of ANI. (N)
11. X,Y Coordinates – The longitude and latitude of the 911 wireless caller's location. (N)

D. Enhanced MF

Enhanced MF (EMF) is a new signaling protocol from the 911 Tandem to the PSAP. Enhanced MF accommodates either ten or 20 digits of ANI. Enhanced MF is not a requirement of Wireless Phase 2 implementation but EMF must be used by PSAPs when an interconnecting Wireless Service Provider chooses the Phase 2 NCAS Mode (as defined in J-STD-036 Annex D, Table D.1.2.), without WLS911. If an interconnecting WSP chooses a Phase 2 NCAS solution without WLS911, the PSAP's equipment must be 20-digit Enhanced MF capable as described in BellSouth's Technical Reference # 73528, Issue 6. The PSAP must request the Company convert them to EMF signaling when preparing to accept Phase 2 calls from a WSP utilizing Phase 2 NCAS without WLS911. Once a PSAP has been converted to 20 digit EMF Signaling the functionality of WLS911 is disabled for all WSPs serving that PSAP. (N)

E. Extended ALI

Phase 2 Wireless E911 requires the Automatic Location Identification (ALI) format be changed to the BellSouth Extended ALI format to accommodate the longitude and latitude, or x,y coordinates. The provision and delivery of the x,y information to the PSAP requires a Phase 2 ALI interface between the ALI database and the WSP's Mobile Position Center (MPC). The provisioning of the Phase 2 ALI interface is the responsibility of the WSP. (N)

F. Rates and Charges

	Nonrecurring Charge	Monthly Rate	USOC	
(1) Enhanced MF signaling, per PSAP	-	-	-	(N)
(2) Extended ALI, per PSAP	\$2,200.00	-	XTAL2	(N)

EFFECTIVE: August 16, 2002

A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.7 The Tellabs¹ 291 Emergency Alerting System

(Obsoleted, See A113.27.7)

(M)

A13.27.8 BellSouth[®] 9-1-1 PinPoint[®] Service

(M)

A. General

(M)(T)

1. BellSouth[®] 9-1-1 PinPoint[®] service allows a Private Branch Exchange (PBX) switch located on a customer's premises to be trunked directly into an E911 tandem office, delivering the telephone number and location of the PBX end user to the appropriate Public Safety Answering Point (PSAP). (M)
2. BellSouth[®] 9-1-1 PinPoint[®] service is available with Primary Rate ISDN (PRI). Local channels as described in this section are not required with PRI. (M)(T)

B. Regulations

1. BellSouth[®] 9-1-1 PinPoint[®] service is furnished subject to the availability of facilities. (M)
2. Automatic Number Identification (ANI) which is passed to the Company's E911 tandem office by the PBX switch is read, processed and utilized in the manner as if it is provided by any other serving end office in the Company's E911 system. (M)(T)
3. The emergency agency serving the area may also be involved to update the Master Street Address Guide (MSAG) and to determine the method in which emergency calls from BellSouth[®] 9-1-1 PinPoint[®] service locations will be handled. (M)
4. The following specifications must be met when provisioning this service: (M)(T)
 - a. Subscribers to BellSouth[®] 9-1-1 PinPoint[®] service must meet all BellSouth technical specifications. (M)
 - b. The PBX switch must be able to transmit ANI using multi-frequency signals. This may require the retro-fitting of existing PBX switches with interfaces which will work with the Company's E911 system. (M)
 - c. The PBX switch owner/operator must supply the Company with the initial telephone number-to-address data as well as periodic updates. (M)
 - d. The PBX switch must employ Direct Inward Dial (DID) numbers. (M)
 - e. It will be the responsibility of the vendor or PBX operator to maintain the data pertaining to each extension operating under such system. (M)

Note 1: Copyright of Tellabs, Inc.

A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.8 BellSouth® 9-1-1 PinPoint® Service (Cont'd)

B. Regulations (Cont'd)

5. The PBX switch owner/operator must install a minimum of two private E911 local channels (except for PRI) with the following specifications:
 - a. This voice grade local channel provides for a communications path between the demarcation point at the customer premises and the serving wire center of that premises.
 - b. The PBX switch owner/operator is responsible for determining that their terminal equipment is compatible with this local channel.
 - c. Supervision on this BellSouth® 9-1-1 PinPoint® service local channel will be loop reverse battery. The battery source is located in the Company's serving wire center and will be a nominal -48V (-42.75V to -56.5V dc). (T)
 - d. The PBX will signal an off hook (or seizure) by providing a loop closure across tip and ring with a maximum resistance of 670 ohms. The Company's serving wire center will instruct the PBX to forward the calling station's number (ANI) information by a battery reversal wink.
 - e. Additional regulations may be applicable as described in Section B3. of the Company's Private Line Services Tariff.
 - f. Required network interfaces are located in Section A14. of this Tariff.
6. Service charges, as specified in Section A4. of this Tariff, are applicable.
7. General Regulations located in Section A2. of this Tariff will also apply to this service offering.
8. This service is offered solely as an aid in handling assistance calls in connection with fire, police and other emergencies and does not create any relationship or obligation, direct or indirect, to any person other than the customer contracting for BellSouth® 9-1-1 PinPoint® service. The provision of BellSouth® 9-1-1 PinPoint® service by the Company shall not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of or creating any Company obligation toward any third person or legal entity other than the customer. (T)
9. The rates charged for BellSouth® 9-1-1 PinPoint® service do not contemplate the constant monitoring or inspection of facilities to discover errors, defects and malfunctions in the service, nor does the Company undertake such responsibility. The customer shall make such operational tests as, in the judgment of the customer, are required to determine whether the service is functioning properly for its use. The customer shall promptly notify the Company in the event the service is not functioning properly. (T)
10. The Company's entire liability to any person for the interruption or failure of BellSouth® 9-1-1 PinPoint® service shall be limited to the terms set forth in this Section and other Sections of this Tariff. The Company shall neither be liable for damages resulting from or in connection with its provision of BellSouth® 9-1-1 PinPoint® service to any customer subscribing to BellSouth® 9-1-1 PinPoint® service or any person accessing or using BellSouth® 9-1-1 PinPoint® service and nor shall the Company be liable for its provision of any telephone number, address, or name to any entity providing 911 service or to a public safety answering point, unless the Company acted with malicious purpose or in the manner exhibiting wanton and willful disregard of safety or property in providing such services. (T)
11. Each customer agrees to release, indemnify, defend and hold harmless the Company from any and all loss, claims, demands, suits, or other action, or any liability whatsoever, whether suffered, made, instituted or asserted by the Customer or by any other party or person, for any personal injury to or death of any person or persons, or for any loss, damage or destruction of any property, whether owned by the Customer or others, or for any infringement or invasion of the right of privacy of any person or persons, caused or claimed to have been caused, directly or indirectly, by the installation, operation, failure to operate, maintenance, removal, presence, condition, location or use of BellSouth® 9-1-1 PinPoint® service features and the equipment associated therewith, or by any services which are or may be furnished by the Company in connection therewith, including but not limited to the identification of the telephone number, address or name associated with the telephone used by the party or parties accessing 911 services using BellSouth® 9-1-1 PinPoint® services hereunder, and which arise out of the negligence or other wrongful act of the Company, the Customer, its user agencies or municipalities or employees or agents of any one of them. (T)

A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.8 BellSouth® 9-1-1 PinPoint® Service (Cont'd)

B. Regulations (Cont'd)

12. When an order for BellSouth® 9-1-1 PinPoint® service and facilities or requests for additions, rearrangements, relocations or modifications or service and equipment are canceled in whole or in part, the customer may be required to reimburse the Company for all expenses incurred in handling the requests before notice of cancellation is received. Such charges, however, are not to exceed all charges which would apply if the work involved in complying with the request had been completed. (T)
13. When the use of service or facilities furnished by the Company is interrupted due to any cause other than the negligence or willful act of the subscriber or the failure of the facilities provided by the subscriber, a pro rata adjustment of the fixed monthly charges involved will be allowed as covered by Section A2. of this Tariff.
14. In the event of any interruption of the service, the Company shall not be liable to any person, corporation or other entity for any loss or damage in an amount greater than an amount equal to the pro rata allowance of the tariff rate for the service or facilities provided to the customer for the time such interruption continues, after notice to the Company. No allowance shall be made if the interruption is due to the negligence or willful act of the customer of the service.
15. Other Rules and Regulations located in A13.27.5. preceding will also apply to this service offering as appropriate.

C. Payment Schedules

1. General
BellSouth® 9-1-1 PinPoint® service is offered for a 60 month contract period at the rates and charges indicated in this sub-section. (T)
2. Transfer of Contract
Service may be transferred to a new subscriber at the same location upon prior written concurrence by the new subscriber as specified in Section A2. of this Tariff.
3. Deferred Payment
Nonrecurring charges may be deferred or installment billed as specified in Section A2. of this Tariff.
4. Prepayment
Recurring charges may be prepaid as specified in Section A2. of this Tariff.
5. Moves of Service (T)
 - a. When the PBX owner/operator moves BellSouth® 9-1-1 PinPoint® service: (T)
 - (1) 60 month rates in effect will continue uninterrupted. (T)
 - (2) BellSouth® 9-1-1 PinPoint® service nonrecurring charges do not apply. (T)
 - (3) BellSouth® 9-1-1 PinPoint® service local channel charges apply as appropriate. (T)

BELLSOUTH
TELECOMMUNICATIONS, INC.
TENNESSEE
ISSUED: July 16, 2002
BY: President - Tennessee
Nashville, Tennessee

GENERAL SUBSCRIBER SERVICES TARIFF

Second Revised Page 47.3
Cancels First Revised Page 47.3

EFFECTIVE: August 16, 2002

A13. MISCELLANEOUS SERVICE ARRANGEMENTS

A13.27 Emergency Reporting Services (Cont'd)

A13.27.8 BellSouth® 9-1-1 PinPoint® Service (Cont'd)

(T)

D. Rates and Charges

1. BellSouth® 9-1-1 PinPoint® Service

(T)

a. Installation Charge

(1) Per Customer

	Nonrecurring Charge	Monthly Rate	USOC
(a) Up to 1,000 station records, per customer	\$3,600.00	-	E8YN1
(b) 1,001 to 4,000 station records, per customer	4,800.00	-	E8YN2
(c) 4,001 or more station records, per customer	5,900.00	-	E8YN3

b. 60 Month Contract Period - Monthly Charges,

(1) per 1,000 records

(a) Up to 1,000 station records, per 1,000 records	-	\$178.00	E8Y61
(b) 1,001 to 4,000 station records, per 1,000 records	-	155.00	E8Y62
(c) 4,001 or more station records, per 1,000 records	-	130.00	E8Y63

2. BellSouth® 9-1-1 PinPoint® Service Local Channels, per channel

(T)

(a) First channel, each	475.00	-	E8YCT
(b) Additional channels, each	105.00	-	E8YCU
(c) Each channel	-	55.00	E8YCV

(T)